SKRIPSI

HARTINI

IDENTIFIKASI DAN ANALISIS KUANTITATIF (+)-PINORESINOL DARI TANAMAN *Alyxia reinwardtii* Bl. YANG BERASAL DARI TAWANGMANGU SECARA KLT DENSITOMETRI

FAKULTAS FARMASI

UNIVERSITAS AIRLANGGA

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Lembar Pengesahan

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ABSTRACT

Identification and quantitative analysis of (+)-pinoresinol from Tawangmangu's *Alyxia reinwardtii* Bl with TLC Densitometry method

Lignan which are formed by oxidative coupling of p-hydroxyphenyl propene units, often link by an oxygen bridge. Lignan was reported as precursor of podophyllotoxin which show the activity to inhibit cancer development (Leuchner, 1998). Research about *Alyxia reinwardtii* Bl and secondary metabolite product analysis had been done. In the present work, the availability of (+)-pinoresinol, a lignan derivate, in folium and cortex extracts of *Alyxia reinwardtii* Bl which determinated in BPTO Tawangmangu was studied by using unpublished method of The Institute of Pharmaceutical Biology, University of Dusseldorf, Germany. The extracts were analysed using TLC analysis. The spot of methanol to extract from cortex were the same compared standart (+)-pinoresinol, but folium extract were different with standart (+)-pinoresinol. Furthermore, the spot from TLC eluation was analysed using TLC Scanner and showed that absorbance reflectan spectra profile of folium and cortex extract were different (measured at $\lambda = 280$)

Key words : *Alyxia reinwardtii*, Lignan, (+)-pinoresinol, Dusseldorf extraction method, TLC densitometry